

**METHOD FOR DISPERSING SPACER ON THE SUBSTRATE OF A LIQUID
CRYSTAL DISPLAY ELEMENT AND APPARATUS FOR DISPERSION
THEREWITH**

Abstract of the Disclosure

The present invention is directed to a method for placing spacer uniformly and securely onto the substrate of a liquid crystal display element, comprising the steps of: (a) Preparing an UV [or thermal] curable resin containing spacer particles. (b) Dispersing certain amount of above spacer-resin mixture on a gravure cylinder with well finished designed cells to be used as the spacer-resin carrier. (c) Removing excess spacer-resin mixture and forced on spacer particle with resin into each hole by means of doctor knife. (d) Transferring individual spacer-resin onto a second smooth surfaced roller according to the designed pattern by means of contact. (e) Transferring individual patterned spacer-resin onto the surface of substrate of a liquid crystal display element from the second roller with any conventional coating methods. Likewise, the edge sealant for LCD can be placed by a similar method.